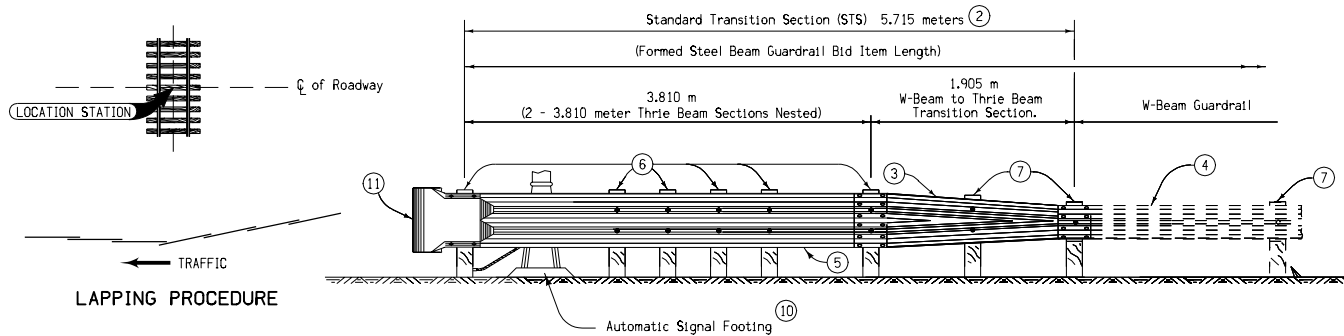


CASE "S"



CASE "F"

GENERAL NOTES:

Details indicated hereon are for installation of formed steel beam guardrail at automatic signal footing locations adjacent to the traveled way. For information regarding individual installations, refer to Tabulation of Beam Guardrail Installations, other Standard Road Plans and detailed project plans for additional data.

In areas where the guardrail diverges from the installation line, a smooth profile shall be established. Grade a 10:1 slope from the edge of the shoulder to behind the guardrail post as detailed on Standard Road Plan RL-14.

Guardrail shall be lapped towards the obstacle.

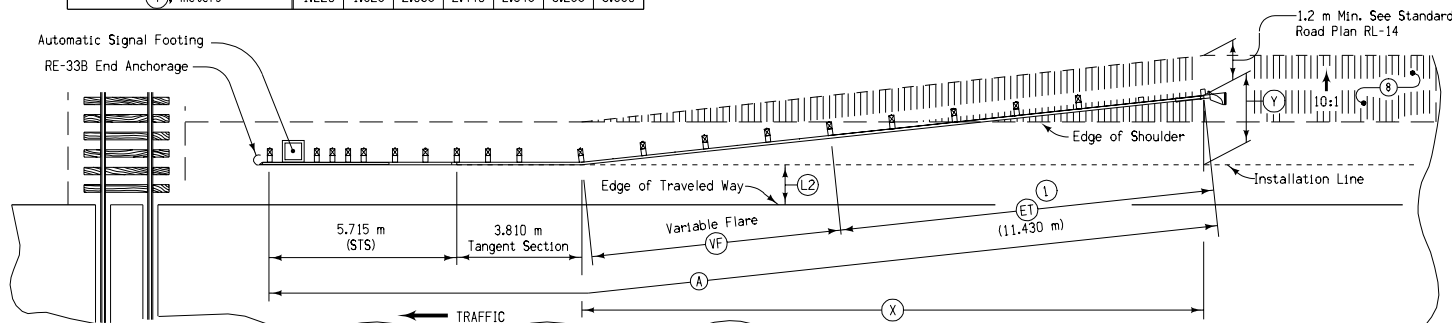
Contract items for guardrail construction are:

- Installation of Guardrail (Bid Item Length = A)
- Beam Guardrail End Anchorage (RE-33B)
- Beam Guardrail Terminal (RE-76)

- Refer to Standard Road Plan RE-76 for details of Terminal Section.
- Refer to Standard Road Plan RE-68 for details of Standard Transition Section.
- Thrie Beam Transition Section; refer to Standard Road Plan RE-28.
- Formed Steel "W" Beam Guardrail; refer to Standard Road Plan RE-12A.
- Formed Steel Thrie Beam Guardrail; refer to Standard Road Plan RE-12B.
- 150mm x 200mm x 2134mm Wood Post with Spacer Block.
- 150mm x 200mm x 1830mm Wood Post with Spacer Block.
- For earth shaping at barriers and berm widths, see Standard Road Plan RL-14.
- Variable Flare length (VF) + Terminal length (ET) (11.430 m).
- On two-lane undivided highways, two posts in the Standard Transition Section are not installed at the footing.
- Apply 305 x 305 mm yellow Type III retroreflective sheeting to terminal section.

OFFSETS TO LAST POST OF TERMINAL								
Distance Along Flare, meters (9)	11.430	15.240	19.050	22.860	26.670	30.480	34.290	
(X), meters	11.365	15.155	18.940	22.730	26.520	30.305	34.095	
(Y), meters	1.220	1.625	2.035	2.440	2.845	3.255	3.660	

PARIAL ELEVATION



All dimensions given in millimeters unless noted.

METRIC VERSION	Iowa Department of Transportation Highway Division	
	STANDARD ROAD PLAN	RE-63
	REVISION: Change RE-338 End Anchorage. Add note 11.	REVISION NO. 10
	APPROVED BY DESIGN METHODS ENGINEER	REVISION DATE 10-29-02
	GUARDRAIL INSTALLATION (Railroad Automatic Signal Footing)	